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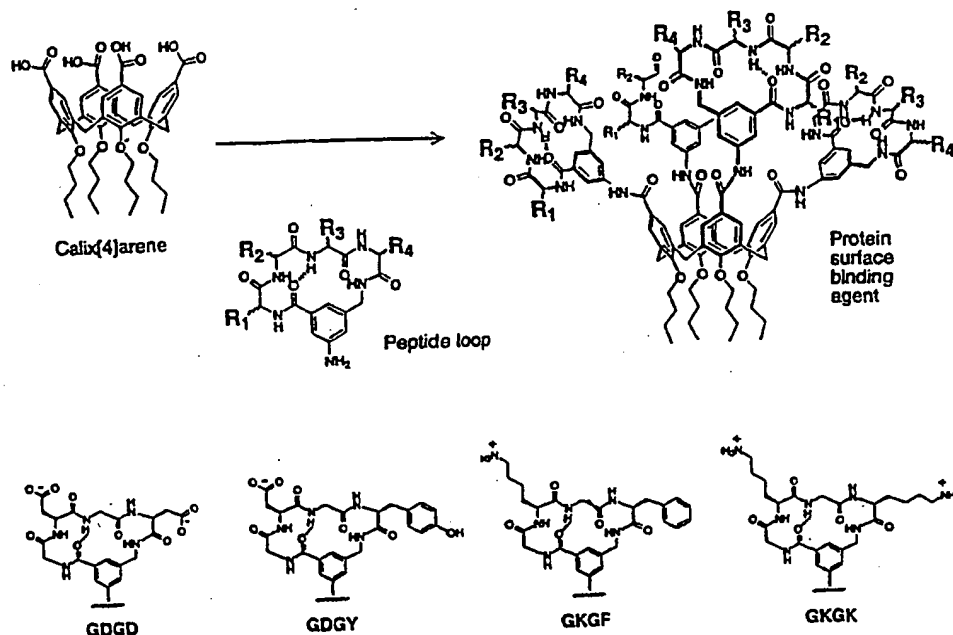
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US 60/190,938 (CIP)
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[Continued on next page]

(54) Title: **GROWTH FACTOR BINDING MOLECULES**



(57) Abstract: Growth factor binding molecules having a plurality of peptide loops attached to a non-peptide organic scaffold such as a calixarene, preferably having pseudo-six amino acid peptide loops with four amino acid sidechains. The growth factor binding molecules specifically bind various growth factors and are suitable for treating a subject having tumors or restinosis. In one embodiment a platelet-derived growth factor binding molecule is disclosed that is used to inhibit tumor growth and angiogenesis in solid tumors.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US01/08920

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 38/02, 38/12; C07K 2/00, 7/54; G01N 33/68

US CL : 436/86, 87; 514/2, 9, 11, 13, 18; 530/300, 317, 323, 326, 330

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 436/86, 87; 514/2, 9, 11, 13, 18; 530/300, 317, 323, 326, 330

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WEST, DIALOG, CHEMICAL ABSTRACTS

search terms: growth factor, bind, tetrapeptide, loop, scaffold, template, calixarene, structure of claim 4

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,770,380 A (HAMILTON ET AL) 23 June 1998 (23/06/98), see entire document.	1-17
A,E	US 6,262,257 B1 (GALE ET AL) 17 July 2001 (17/07/01), see entire document.	1-17
A,P	SHUKER et al. Solid-Phase Synthesis of a Novel Peptide Substituted Calix[4]arene. Synlett. 2001, No. 2, pages 210-213.	1-17



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
E earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	* & * document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means	
P document published prior to the international filing date but later than the priority date claimed	

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